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After thorough dehydration the tissue is placed in xylol for 12-24 hours and changed several times. It is then imbedded in paraffine in the usual way.

The most complete and in every way satisfactory staining of the sensory nervous system was obtained by two or three injections of a  $\frac{1}{2}$  per cent solution of Erlich's methylen blue at intervals of from 15 to 20 minutes, both with vertebrates and invertebrates, as suggested by Semi Meyer.<sup>3</sup>

The tissues relaxed after the first injection so that more fluid was introduced by the second and third injections than by the first.

The use of chloroform was found to be wholly unnecessary by this method. Meyer uses a very strong solution of B. X. methylen blue, 5 per cent to 6 per cent, in water.

The paraffine sections should generally be quite thick (45-60 *Mμ*).—A. D. MORRILL, Hamilton College, Clinton, N. Y.

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## PROCEEDINGS OF SCIENTIFIC SOCIETIES.

**American Association for the Advancement of Sciences** (continued from page 779).—Prof. A. S. Packard was elected to represent the Association on the American advisory board to coöperate with the American member of the international commission on rules of nomenclature. The following were elected to represent the Association at the International Congress of Geologists to be held in St. Petersburg in September, 1897: Prof. Jas. Hall, Prof. E. D. Cope, Prof. B. K. Emerson, Prof. C. D. Walcott, Prof. W. N. Rice.

The following sectional officers were elected to serve at the meeting of 1897, at Detroit.

Vice-Presidents.—A, Mathematics and Astronomy.—W. W. Beman, of Ann Arbor, Mich. B, Physics.—Carl Barus, of Providence, R. I. C, Chemistry.—W. P. Mason, of Troy, N. Y. D, Mechanical Science and Engineering.—John Galbraith, of Toronto, Can. E, Geology and Geography.—I. C. White, of Morgantown, W. Va. F, Zoology.—G. Brown Goode, of Washington, D. C. G, Botany.—George F. Atkinson, of Ithaca, N. Y. H, Anthropology.—W. J. McGee, of Washington, D. C. I, Social and Economic Science.—Richard T. Colburn, of Elizabeth, N. J.

<sup>3</sup> Archiv. f. Mikros. Anat. Bd. 46. Heft 2, and Bd. 47. Heft 4.

Permanent Secretary.—F. W. Putnam, of Cambridge, Mass. (Office, Salem, Mass.).

General Secretary.—Asaph Hall, Jr., of Ann Arbor, Mich.

Secretary of the Council.—D. S. Kellicott, of Columbus, O.

Secretaries of the Sections.—A, Mathematics and Astronomy.—James McMahon, of Ithaca, N. Y. B, Physics.—Frederick Bedell, of Ithaca, N. Y. C, Chemistry.—P. C. Freer, of Ann Arbor, Mich. D, Mechanical Science and Engineering.—John J. Flather, of Lafayette, Ind. E, Geology and Geography.—C. H. Smith, Jr., of Clinton, N. Y. F, Zoology.—C. C. Nutting, of Iowa City, Ia. G, Botany.—F. C. Newcombe, of Ann Arbor, Mich. H, Anthropology.—Harlan I. Smith, of New York. I, Social and Economic Science.—Archibald Blue, of Toronto, Ont.

Treasurer.—R. S. Woodward, of New York, N. Y.

It was ordered that in future the Vice-Presidents should be called Chairmen of the Sections in the publications of the Association.

Two evening lectures were given to the citizens of Buffalo, viz., The History of the Niagara Gorge, by Dr. J. W. Spencer, and the Results of Cave Exploration and its relation to the Antiquity of Man in North America, by E. D. Cope.

The following papers in the natural sciences were read :

**Geology.**—*Tuesday, August 25.*—Notes on the Artesian Well sunk at Key West, Florida, in 1895, by Edmund Otis Hovey ; The Hydraulic Gradient of the Main Artesian Basin of the Northwest, by J. E. Todd ; The true Tuff-beds of the Trias, and the mud enclosures, the underrolling, and the basic pitchstone of the Triassic Traps, by B. K. Emerson ; Volcanic Ash from the North Shore of Lake Superior, by N. H. Winchell and U. S. Grant ; The Tyringham (Mass.) "Mortise Rock," and pseudomorphs of Quartz after Albite, by Ben. K. Emerson ; The Succession of the Fossil Faunas in the Hamilton group at Eighteen Mile Creek, N. Y., by Amadeus W. Grabau ; Development of the Physiography of California. Lantern pictures, by James Perrin Smith ; Synopsis of California Stratigraphy, by James Perrin Smith ; Ancient and Modern Sharks and the Evolution of the Class, by E. W. Claypole.

*Wednesday, August 26.*—The Discovery of a new Fish Fauna, from the Devonian Rocks of Western New York, by F. K. Mixer ; The Cuyahoga Preglacial Gorge in Cleveland, Ohio, by Warren Upham ; The Operations of the Geological Survey of the State of New York, by James Hall ; A Revision of the Moraines of Minnesota, by J. E. Todd ; Origin of the High Terrace Deposits of the Monongahela

River, by I. C. White; Observations on the Dorsal Shields in the Dinichthyids, by Charles R. Eastman.

**Zoology.**—*Tuesday, August 25.*—On the Entomological Results of the Exploration of the British West India Islands by the British Association for the Advancement of Science, by L. O. Howard; Warning Colors, Protective Coloration and Protective Mimicry, by F. M. Webster; On Life Zones in West Virginia, by A. D. Hopkins; On the Variations of Certain Species of North American Odonata, by D. S. Kellicott; A Case of Excessive Parasitism, by L. O. Howard; Notes on the Occurrence of Dragonflies in Ohio in 1896, by D. S. Kellicott; Scyllarus and Anemonia—A Case of Semi-commensalism, by Edward L. Rice.

**Botany.**—*Tuesday, August 25.*—The Relation of the Growth of Leaves to the  $\text{CO}_2$  of the Air, by D. T. MacDougal; Directive Forces Operative in Leaf Rosettes, by R. N. Day; On *Crataegus coccinea* and Its Segregates, by N. L. Britton; The Distribution of the Species of Gymnosporangium in the South, by L. M. Underwood and F. S. Earle; Morphology of the Canna Flower, by L. H. Bailey; A Comparison of the Flora of Erie Co., Ohio, with that of Erie Co., New York, by E. L. Moseley; The Point of Divergence of Monocotyledons and Dicotyledons, by C. E. Bessey; On the Bacterial Flora of Cheddar Cheese, by H. L. Russell; The Terminology of Reproductive Organs, by C. R. Barnes; A Comparative Study of the Development of Some Anthracnoses in Artificial Cultures, by Bertha Stoneman.

**Anthropology.**—*Tuesday, August 25.*—Resolution on the death of Capt. Bourke, Secretary of the Section, followed by a memorial by Washington Matthews.

A Ceremonial Flint Implement and Its Use among the Ancient Tribes of Tennessee, by Gates P. Thurston; Symbolic Rocks of Byfield and Newbury, Mass., by Horace C. Hovey; An Analysis of the Decoration upon Pottery from the Mississippi Valley, by C. C. Willoughby; Brief Description of the Prehistoric Ruins of Tzac Pokoma, Guatemala, by John Rice Chandler; Human Relics from the Drift of Ohio, by W. Claypole; Fresh Geological Evidence of Glacial Man at Trenton, New Jersey, by G. Frederick Wright.

**Sociology.**—*Tuesday, August 25.*—The Monetary Standard, by W. H. Hale; The Competition of the Sexes and Its Results, by Lawrence Irwell; Fashion—A Study, by S. Edward Warren; Citizenship, Its Privileges and Duties, by Stillman F. Keeland; An Inheritance for the Waifs, by C. F. Taylor.

*Wednesday, August 26.*—The Proposed Sociological Institution, by James A. Skilton; What is True Money? by Edward Atkinson; The Value of Social Settlement, by Aaron B. Keeler; The Wages Fund Theory, by Aaron B. Keeler.

*Thursday, August 27.*—Better Distribution of Forecasts, by John A. Miller; The Tin Plate Experiment, by A. P. Winston; Relics of Ancient Barbarism, by S. F. Kneeland; Suicide Legislation, by W. Lane O'Neill.

**Geology.**—*Wednesday, August 26.*—Wednesday afternoon was given to a meeting in commemoration of the sixtieth anniversary of Professor Hall's work in connection with the New York Survey.

The presiding officer spoke briefly in behalf of the Association; and Professor Joseph LeConte, President of the Geological Society, spoke for that Society.

Professor Hall was present and responded in person.

James Hall, Founder of American Stratigraphic Geology, by W. J. McGee; Professor Hall and the Survey of the Fourth District, by John M. Clarke.

*Thursday, August 27.*—Sheetflood Erosion, by W. J. McGee; Post-Cretaceous Grade-Plains in Southern New England. By F. P. Gulliver.

*Thursday Afternoon.*—Excursion to Eighteen Mile Creek.

*Saturday, August 29.*—Excursions.

**Zoology.**—*Wednesday, August 26.*—Notes Upon Cordylophora, by C. W. Hargitt; Modification of the Brain During Growth, by Susanna Phelps Gage; Structure and Morphology of the Oblongata of Fishes, by B. F. Kingsbury; Differentiation of Work in Zoology—in Secondary Schools, by William Orr, Jr.; Field Work and Its Utility, by James G. Needham; Appendages of an Insect Embryo, by Agnes M. Claypole; Experiments Upon Regeneration and Heteromorphosis, by C. W. Hargitt; The Penial Structures of the Saurians, by E. D. Cope; A Note on the Membranous Roof of the Prosencephal and Diencephal of Ganoids, by B. F. Kingsbury.

**Anthropology.**—*Wednesday, August 26.*—Indian Wampun Records, by Horatio Hale; Seri Stone Art, by W. J. McGee; The Beginning of Zoöculture, by W. J. McGee; Resolution upon the appointment of a Committee to report on "The Ethnography of the White Race in the United States," by Daniel G. Brinton; Onondaga Games, by W. M. Beauchamp; Meaning of the Name Manhattan, by William Wallace Tooker; Kootenay Indian Place Names, by A. F. Chamberlain; Kootenay Indian Names of Implements and Instruments, by A. F. Chamberlain; Aboriginal Occupation of New York, by W. M. Beauchamp;

Clan System of the Pueblos, by F. W. Hodge; The Psychic Source of Myths, by Daniel G. Brinton; The Limitation of the Comparative Method in Anthropology, by Franz Boas.

**Sociology.**—*Wednesday, August 26.*—The Proposed Sociological Institution, by James A. Skilton; The Value of Social Settlement, by Aaron B. Keeler; Human Reciprocity, by Mary J. Eastman; Better Distribution of Forecasts, by John A. Miller; The Tin Plate Experiment, by A. P. Winston; Relics of Ancient Barbarism, by S. F. Kneeland; Suicide Legislation, by W. Lane O'Neill; Crime Against Labor, by Edward Atkinson.

**Geology.**—*Thursday, August 27.*—Notes on Certain Fossil Plants from the Carboniferous of Iowa, by Thomas H. Macbride; The Making of Mammoth Cave, by Horace C. Hovey; The Colossal Cavern, by Horace C. Hovey; Sheetflood Erosion, by W. J. McGee; Glacial Flood Deposits in the Chenango Valley, by Albert P. Brigham; Origin of Conglomerates, by T. C. Hopkins; Origin of the Topographic Features in North Carolina, by Collier Cobb; The Cretaceous Clay Marl Exposure at Cliffwood, N. J., by Arthur Hollick; Post-Cretaceous Grade-Plains in Southern New England, by F. P. Gulliver; The Eocene Stages of Georgia, by Gilbert D. Harris; The Origin and Age of the Gypsum Deposits of Kansas, by G. P. Grimsley; Geomorphic Notes on Norway, by J. W. Spencer; The Slopes of the Drowned Antillean Valleys, by J. W. Spencer; The "Augen-Gneiss," Pegmatite Veins, and Diorite Dikes at Bedford, Westchester Co., N. Y., by Lea McI. Luquer and Heinrich Ries; Notes on Kansan Drift in Pennsylvania, by E. H. Williams; Preliminary Notes on the Columbian Deposits of the Susquehanna, by H. B. Bashore.

*Thursday Afternoon.*—Excursion to Eighteen Mile Creek.

**Zoology.**—*Thursday, August 27.*—The Peritoneal Epithelium in Amphibia, by Isabella M. Green; Presented by Simon H. Gage; The Heart of the Lungless Salamanders of Cayuga Lake, by Grant S. Hopkins; Observations on the Chameleon, *Anolis principalis*, by Geo. V. Reichel; Energy in Animal Nutrition; Relative efficiency of Animals as machines, by Manly Miles; Some Abnormal Chick Embryos, by C. W. Hargitt; On a peculiar Fusion of the Gill-filaments in certain Lamellibranchs, by Edward L. Rice; The Relationships of the North American Fauna, by Theodore Gill.

**Botany.**—*Wednesday, August 26.*—The development of the vascular elements in Indian Corn, by W. W. Rowlee; Some remarks on chala-zogamy, by J. M. Coulter; The habits of the rarer ferns of Alabama, by L. M. Underwood; On the stem anatomy of certain Onagraceæ, by

Francis Ramaley; The point of divergence of Monocotyledons and Dicotyledons, by C. E. Bessey; Notes on the pine inhabiting species of *Peridermium*, by L. M. Underwood and F. S. Earle; Reaction of leaves to continual rain fall, by D. T. MacDougal; Studies in nuclear phenomena, and the development of the ascospores in certain *Pyrenomyces*, by Mary A. Nichols; The stigma and pollen of *Arisæma*, by W. W. Rowlee; Notes on the genus *Amelanchier*, by N. L. Britton; Remarks on the northern species of *Vitis*, by L. H. Bailey; On the formation and distribution of abnormal resin ducts in Conifers, by Alex. P. Anderson; The development of the cystocarp of *Griffithsia bornetiana*, by Arma A. Smith; Notes on the allies of the sessile *Trilium*, by L. M. Underwood; On an apparently undescribed *Cassia* from Mississippi, by C. L. Pollard; A bacterial disease of the squash bug (*Anasa tritis*), by B. M. Duggar; What is the bark? by C. R. Barnes; Embryo-sac structures, by J. M. Coulter; Some *Cyperaceæ* new to North America, with remarks on other species, by N. L. Britton; Grasses of Iowa, by L. H. Pammel; Ceres-Pulver: Jensen's new fungicide for the treatment of smut, by W. A. Kellerman; On the *Cardamines* of the *C. hirsuta* group, by N. L. Britton; The relation between the genera, *Polygonella* and *Thysanella*, as shown by a hitherto unobserved character, by John K. Small; An apparently undescribed species of *Prunus* from Connecticut, by John K. Small; The flora of the summits of King's Mountain and Crowder's Mountain, North Carolina, by John K. Small; Parthenogenesis in *Thalictrum fendleri* by David F. Day; Notes on the family *Pezizaceæ* of Schröter, by Elias J. Durand; What should constitute a type specimen, by S. M. Tracy; Rheotropism and the relation of response to stimulus, by F. C. Newcombe; Some adaptation of shore plants to respiration, by Hermann von Schrenk; Influence of rainfall upon leaf forms, by D. T. MacDougal; The mechanism of curvature in tendrils, by D. T. MacDougal.

*Thursday, August 27.*—The Beginning of Zoöculture, by W. J. McGee; Onondaga Games, by W. M. Beauchamp; Meaning of the Name Manhattam, by William Wallace Tooker; Kootenay Indian Place Names, by A. F. Chamberlain; Kootenay Indian Names of Implements and Instruments, by A. F. Chamberlain; Physical and Mental Measurements of Students of Columbia University, by J. McKee Cattell; Anthropometry of the Shoshone Indians, by Franz Boas; Recent Discoveries and Discussions as to Pygmy Races, by R. G. Haliburton; The Papago Time Concept, by W. J. McGee; Notes on the Theological Development of one Child, by Fanny D. Bergen; Certain

Shamanistic Ceremonies among the Ojibways, by Harlan I. Smith; Notes on Certain Beliefs concerning Will Power among the Siouan Tribes, by Alice C. Fletcher; Pueblo Indian Clans, by F. W. Hodge; Mescal Plant and Rite, by James Mooney.

**Geology.**—*Friday, August 28.*—Glacial Flood Deposits in the Chenango Valley, by Albert P. Brigham; Origin of Conglomerates, by T. C. Hopkins; Origin of Topographic Features in North Carolina, by Collier Cobb; The Cretaceous Clay Marl Exposure at Cliffwood, N. J., by Arthur Hollick; Post-Cretaceous Grade-Plains in Southern New England, by F. P. Gulliver; The Niagara Falls Gorge, by George W. Holley; The Algonquin River, by G. K. Gilbert; The Whirlpool Saint Davids Channel, by G. K. Gilbert; Profile of the Bed of the Niagara in its Gorge, by G. K. Gilbert; Origin and Age of the Laurentian Lakes and of Niagara Falls, by Warren Upham; Correlation of Warren Beaches with Moraines and Outlets in Southeastern Michigan, by F. B. Taylor; Notes on the Glacial Succession in Eastern Michigan, by F. B. Taylor; The Eocene Stages of Georgia, by Gilbert D. Harris; The Origin and Age of the Gypsum Deposits of Kansas, by G. P. Grimsley; Geomorphic Notes on Norway, by J. W. Spencer; The Slopes of the Drowned Antillean Valleys, by J. W. Spencer; The "Augen-Gneiss," Pegmatite Veins, and Diorite Dikes at Bedford, Westchester Co., N. Y., by Lea McL. Luquer and Heinrich Ries; Notes on Kansan Drift in Pennsylvania, by E. H. Williams; Preliminary Notes on the Columbian Deposits of the Susquehanna, by H. B. Bashore.

**Anthropology.**—*Friday, August 28.*—Finger Prints of American Indians, by Fred. Starr; The Temple of Tepoztlan, Mexico, by M. H. Saville; The Preservation of Local Archæological Evidence, by Harlan I. Smith; Character and Food, by George V. Reichel; Some Indian Rock and Body Painting in Southern California, by David P. Barrows; Recent Explorations in Honduras by the Peabody Museum, by F. W. Putnam; Pueblo Indian Clans, by F. W. Hodge; Mescal Plant and Rite, James Mooney; Finland Vapor Baths, by H. W. Smith; Cupped Stones, by Franz Boas.

*Saturday, August 29.*—An excursion to Niagara City, Falls and Gorge was given by the citizens of Buffalo. The party took steamboat to a point on the Canadian side above the Falls, and then took trolley down the river. Fine views of the Falls were had. At Lewiston the river was crossed in a steamboat, and the trolley line up the river carried the party past the rapids and the whirlpool, of which magnificent views were obtained. After dinner at the International Hotel, the establishments of the Power Company and of the Carborundum Company were examined, and the company returned to Buffalo.